

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2 290 BROADWAY NEW YORK, NY 10007-1866

February 13, 2003

Ms. Nancy Kempel
New Jersey Department of Environmental Protection
DWQ/PSPR
401 East State Street, 2nd Floor
P.O. Box 029
Trenton NJ 08625

Project: Montgomery Township Housing Development (MTHD) and Rocky Hill Municipal Well (RHMW) Superfund Sites

Re: New Jersey Pollution Discharge Elimination System/Discharge to Surface Water (NJPDES/DSW) Permit Equivalency Application

Dear Ms. Kempel:

Attached please find the New Jersey Pollution Discharge Elimination System/Discharge to Surface Water (NJPDES/DSW) Permit Equivalency Application for the Montgomery Township Housing Development (MTHD) and Rocky Hill Municipal Well (RHMW) Superfund Sites for surface water discharge. CDM submitted the draft NJPDES/DSW permit equivalency application to the New Jersey Department of Environmental Protection on November 13, 2002 for your review.

If you have any questions, please contact me at (212) 637-3942 or Ali Rahmani of CDM at (732) 225-7000.

Sincerely yours,

Monica J. Mahar, Project Manager

New Jersey Remediation Branch

cc: Kamala Morgan, USACE

Demetrios Klerides, CDM

Ali Rahmani, CDM



DEPARTMENT OF THE ARMY KANSAS CITY DISTRICT, CORPS OF ENGINEERS 700 FEDERAL BUILDING KANSAS CITY, MISSOURI 64106-2896

REPLY TO ATTENTION OF

DATE: 6 Feb 03

O: CENWK-EC-ED		
TTN: Monica Mahar		
ransmittal Of:		· · · · · · · · · ·
	CONCEPT DESIGN	COMMENTS
	PRELIMINARY DESIGN	TOPO SURVEY
	FINAL DESIGN	STUDY
	_X_OTHER: NJDES Application	
OR;	REVIEW AND FURNISH COM	IMENTS BY:
	REVIEW & FURNISH RESPON	NSE TO COMMENTS
	RETENTION	
	OFFICIAL LTR TO FOLLOW (CONFIRMING THIS
	ACTION	NOTE&RETURN
	INFORMATION	COORDINATION
		•

Kamala D. Morgan

Form ADM-015

State of New Jersey Department of Environmental Protection

REFERRAL FORM	Date 3-18-03			
MONICA MAHAR	FROM LARRY BUINN, NJOEP			
USEPA	TELEPHONE EXT. 609-633-0766			
	RE: MRH PERMIT EQUIVALENT			
For Your ACTION APPRO	OVAL INFORMATION REVIEW			

Monica,

attached are 2 copies of the NJPDES permit equivalent for the Montgomery /Rocky Hill (MRH) surface water discharge.

I think we can get some charges made if we provide comments, so let me know if you have any.

Larry Zim



James E. McGreevey

Governor

Department of Environmental Protection
Division of Remediation Management & Response
Bureau of Case Management
P.O. Box 413
Trenton, New Jersey 08625-0413

Bradley M. Campbell Commissioner

Monica Mahar, Project Manager Southern New Jersey Remediation Section U. S. Environmental Protection Agency Region 2 290 Broadway New York, New York 10007-1866

MAR 1 3 2003

RE:

95% Remedial Design Submittal

Montgomery/Rocky Hill Superfund Sites

Dear Monica:

The New Jersey Department of Environmental Protection (NJDEP) has reviewed the January 2003 95% Remedial Design Submittal prepared by Camp Dresser & McKee, Inc. (CDM) for the Montgomery Township Housing Development and Rocky Hill Municipal Wellfield Superfund sites. Our comments on the submittal are attached.

Due to the tight project schedule and the oversight being provided by both the U.S. Environmental Protection Agency (USEPA) and the U.S. Army Corps of Engineers (USACOE), we did not perform a detailed review of the entire design submittal. Our review was focused primarily on the overall ground water extraction and monitoring scheme and compliance with NJDEP requirements. We did not review the ground water model, design calculations, or the contract specifications in detail.

You may contact me at 609-633-0766 with any questions or comments.

Sincerely.

Larry Quich, P.E., CHMM, Site Manager

Bureau of Case Management

Enclosure

111

Bc:

K. Petrone, BSMD. Doyle, BEERAG. Bakeman, BGWPA

NJDEP Comments on 95% Remedial Design Submittal Montgomery/Rocky Hill Superfund Sites

General Comments

1. Classification Exception Area (CEA). The design report does not discuss the establishment of a ground water CEA at the site. New Jersey's Ground Water Quality Standards (N.J.A.C. 7:9-6) and Technical Requirements for Site Remediation (N.J.A.C. 7:26E) require that a ground water CEA be established as part of a remedial action when contaminant levels in ground water exceed the applicable ground water quality standards (GWQS), which is the case at Montgomery/Rocky Hill (this subject was addressed in a September 9, 1998 NJDEP letter to USEPA).

Establishing a CEA generally involves delineating the area in which the GWQS have been exceeded, estimating the length of time needed to achieve compliance, and then documenting the CEA. A CEA designation would remain in effect until it is documented that contaminant concentrations have decreased to the applicable GWQS. The specific requirements for establishing a CEA are now found in Section 8.3 of the Technical Requirements.

2. Cleanup System Performance. Section 2 of the report should present CDM's assessment (best estimates) of the effectiveness and duration of the remedial action. Such information will be needed to present the project to local officials and the public. Estimates of the following should be included in the discussion: (a) the volume of water to be extracted (per month and year), (b) the time needed to extract one pore volume from the anticipated capture zone, and (c) the rate of contaminant mass removal (initially and over time). Also, Section 2 should include a figure showing the expected capture zone of the system, based on the modeling of GWTF #1 and the calculations done for GWTF #2.

Specific Comments

- 1. Extraction Wells. Construction of wells in the Passaic Formation with long open holes or screened intervals is not a recommended practice. Six of the eight extraction wells as proposed would have open or screened intervals of 60 feet or more, with three of those having open holes of 80 feet or more. CDM should consider reducing the open intervals of these wells. At the very least, the technical reasons for the proposed open intervals should be presented in detail in the design report.
- 2. Sections 2.2.3.2 and 2.2.4.3. Regarding the new monitoring well pairs, it is recommended that the 25, 26, 27, and 28 pairs be moved closer to their respective extraction wells, to provide a better evaluation of the effectiveness of ground water extraction.

NJDEP Comments on 95% Remedial Design Submittal Montgomery/Rocky Hill Superfund Sites (continued)

- 3. Section 2.2.4.3. It is recommended that hydrologic testing, geophysical testing, and sampling be conducted in all new boreholes, before wells are constructed. Such testing would ensure that well screens are set at the most appropriate depths, and would also provide "fresh" sampling data to compare to data gathered from "old" wells. The recommended testing includes down-hole geophysical testing, color video logging, heat pulse flowmeter, acoustic televiewer, and discrete sampling using a discrete-interval sampler (such as the Solinst® Model 425).
- 4. Section 2.2.4.4. Regarding water service connections, a plan or sequence of steps to accomplish this should be listed, as was done in Section 2.2.4.2 regarding well abandonment. At a minimum, the affected property owners and the local water company must be contacted. It is likely that some or all of the property owners will resist a water service connection.
- 5. GAC Calculations. Appendices B2 and C2 contain calculations of Estimated Weighted Mean Effluent Concentrations of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene, for GWTF #1 and #2 respectively. However, the calculated concentrations are different than those used by Calgon Corporation in Appendices B3 and C3 to estimate carbon usage. Also, Calgon's data sheets differ on whether a 50% safety factor is included in their calculations. These seeming discrepancies should be checked.
- 6. Section 7, Permits. A vapor-phase GAC treatment unit is shown on an equalization tank in the schematic drawing on sheet 5. Although it is probable that emissions from such a treatment unit (if actually constructed) would not require an air emissions permit, this should be verified by estimating emissions and comparing to permitting thresholds.
- 7. Section 9.2, Environmental Sampling & Monitoring. Per USEPA guidance on Monitored Natural Attenuation (MNA) and the NJDEP Technical Requirements, the secondary plume must be monitored and assessed to determine whether natural attenuation is occurring. NJDEP requirements regarding natural remediation are found in Section 6.3(d) of the Technical Requirements.
- 8. Table 9-1, Environmental Monitoring Schedule.
 - a) In general, quarterly water level measurements should be taken in most monitoring wells during a ground water extraction project like this one, especially during the first year. Semi-annually is not often enough. Water level measurements are a relatively inexpensive way to get an idea of what impact the extraction system is having on area ground water.

NJDEP Comments on 95% Remedial Design Submittal Montgomery/Rocky Hill Superfund Sites (continued)

- b) Consider weekly water level measurements in MW-9D for one quarter, followed by monthly measurements after that, to check for potential impacts on the RHMW.
- c) To avoid any confusion, please use the term "Semi-Annually" rather than "Biannually".

CDM Transmittal

CDM

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To:	Kamala Morgan	From:	Ali Rahmani	•	
Organization/ Address:	USACE-Kansas City District	Date:	February 5, 2003	ina ana aiki dika dika aiki ana ana ana ana ana ana ana ana ana an	
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Re:	Application for Discharge to Surfa	ace Water Permit B	Equivalency		
Job #:	6142-903-WK7-DESIG				
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Enclosed plea	se find:	-			
For yo	our information			Approved	
F	For your review		Appro	ved as noted	
For	your signature X		Returned to you t	or correction	
• Message:					
Hi Kamala:			•.		
of NJPDES-1 F	e find the NJPDES application for doorm under "Signature of Agent" and aces as an applicant. I will prepare signature.	d then send this to	Monica Mahar for s	ignature. Monica	needs to sign
Please call me,	if you have any questions.		•		
Thanks,					
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M. A. Cahmam: Signed